ACTIA®
Vehicle Electronics & Diagnostics

ACTIA ATAL
Vehicle Electronics & Diagnostics

User Guide

since SW version – 10.1

Multi-Diag®
www.multidiag.com

Last update: January 29, 2010, The right is reserved to change the Manual

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You have just purchased a Multi-Diag diagnostic tool and we thank you for your trust.

To help you familiarise yourself quickly and easily with the product, this user guide introduces you to all the functions of your new equipment… Just let us walk you through.

Developed by ACTIA, a major player in the field of vehicle diagnostic in Europe, the Multi-Diag range accompanies you daily through all car maintenance and repair operations.

- Resetting of maintenance indicators
- Reading / Deletion of DTC's
- Reading of parameters (graphic representation)
- Testing of actuators
- ECU configuration
- Coding (injectors, electronic valves…)

Multi-Diag offers you fully innovative functions, giving you a head start whenever you are performing maintenance work on a vehicle.

- A Workshop mode and an Expert mode
- An Express Diag function
- The diagnostic report
- An Interface with the technical databases, etc.

The whole ACTIA expertise in a multi-make diagnostic device.

ACTIA®
Vehicle Electronics & Diagnostics

ACTIA: our commitments and guarantees

Over 20 years' partnership with vehicle manufacturers: a unique expertise.

Thanks to their expertise in the electronic architecture of vehicles, ACTIA devised the diagnostic in 1985. Since then, ACTIA have been the diagnostic partner of major manufacturers, and provide network support throughout the world. This know-how we have shown in our dealings with manufacturers is a unique guarantee in the world of multi-make diagnostic, and one of the keys to the success of Multi-Diag. As a result, ACTIA is working at the very heart of all technological and regulations issues in diagnostic, and can anticipate many developments. Today, over 20,000 users of the Multi-Diag range benefit from the ACTIA expertise.

In the field, to help you build the workshop of the future

With the takeover in 2003 of MULLER BEM – a benchmark in garage equipment and technical inspection – the ACTIA group offers to their customer a package deal in garage equipment – wheel check, anti-pollution devices, test benches, vehicle lifts… Moreover, their in-depth knowledge of the garage environment enables ACTIA to develop diagnostic tools which are perfectly suited to requirements in the field: performance, ergonomics, mobility, communication… while anticipating the garage of the future.

Multi-Diag equipment and services: the ACTIA trademark quality

With Multi-Diag, you benefit from the same quality of service as manufacturers' after-sales networks throughout the world: regular upgrades, assistance, training and support…

All ACTIA devices are developed in the group's design offices and manufactured in the group's factories, which are international benchmarks in the area of PCB production and assembly of complex systems for the automotive and aeronautics sector.

Diagnostic stations

Further details on page 12

Multi-Diag Handy

Vehicle Communication Interface (VCI)

Further details on page 06

VCI 1 wire

or

VCI 2 wire

or

VCI 2 Bluetooth

Software

Further details on page 17

Multi-Diag software suite including the various diagnostic applications.

Description

This interface between the diagnostic tool and the vehicle being examined is used for communication with on-board systems.
It is connected:

- to the vehicle via a vehicle diagnostic cable
- to the tool via the communication interface in wire mode (USB or RS232 port) or in Bluetooth mode.

VCI 1 - With wire

- 1 VCI unit with wire connection via USB or RS232 cable
- 1 diagnostic cable for connection to the vehicle

*Compliant with standard **SAE J2534 -1, -2 (Pass-thru)** and therefore meeting **EURO 5** requirements*

VCI 2 - Bluetooth

- 1 VCI unit with wireless connection (Bluetooth)
- 1 cable for connection in wire mode to the USB port

*Compliant with standard **SAE J2534 -1, -2 (Pass-thru)** and therefore meeting **EURO 5** requirements*

VCI 2 - With wire

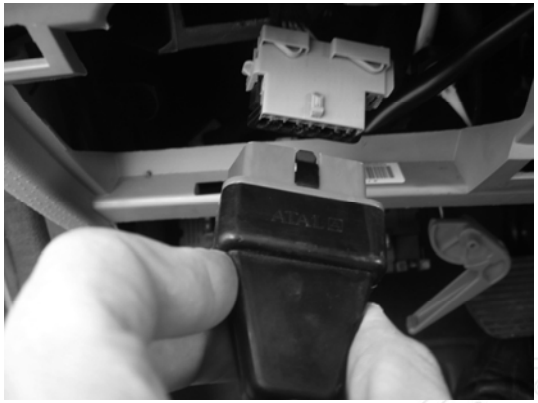
- 1 VCI unit with wire connection via USB or RS232 cable
- 1 diagnostic cable for connection to the vehicle

*Compliant with standard **SAE J2534 -1, -2 (Pass-thru)** and therefore meeting **EURO 5** requirements*

Step 1

- Connect the OBD cable to the VCI (25-pin connector).

Step 2



- Locate the diagnostic plug on your vehicle. Refer to ***page 34*** in this guide.
- Connect the diagnostic cable to the vehicle. If an adapter is required, refer to ***page 8***.

Step 3

- Connect the VCI to your diagnostic station:
  - VCI with wire: directly connect the port cable of your tool.
  - VCI Bluetooth: follow the Bluetooth connection procedure described on ***page 24***.

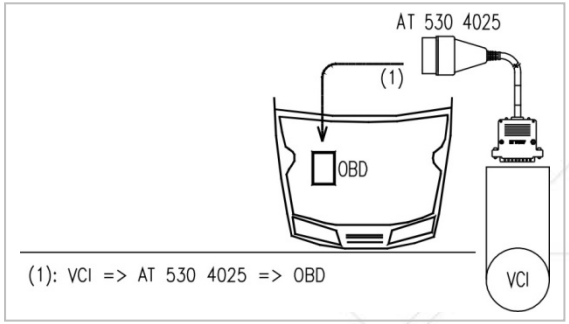
Multi-Diag®

In order to ensure compatibility with the greatest possible number of manufacturers, we offer a full range of cables, available from our commercial network.

OBD

AT530 4010 or
AT530 4025

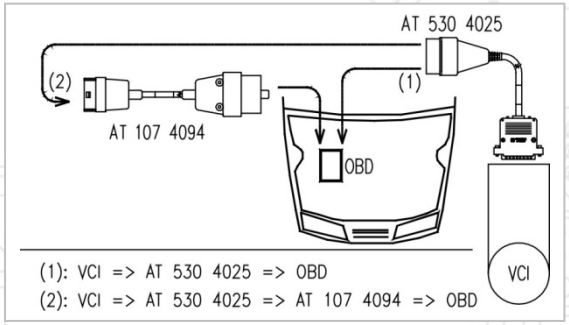
Ref. AC911776



BMW

AT107 4083 or
AT107 4094

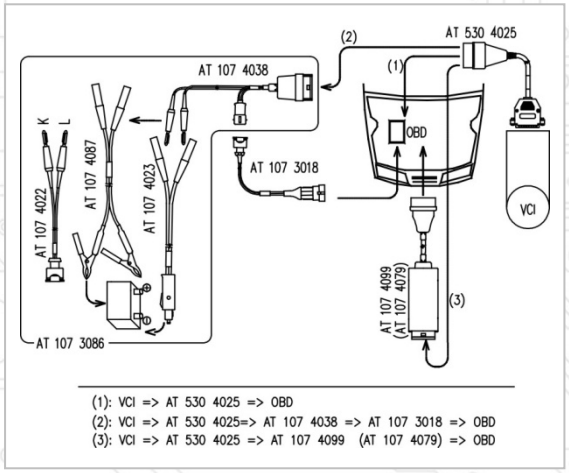
Ref. AC911801



FIAT – AUTOBIANCHI ALFA ROMEO – LANCIA

AT1073018

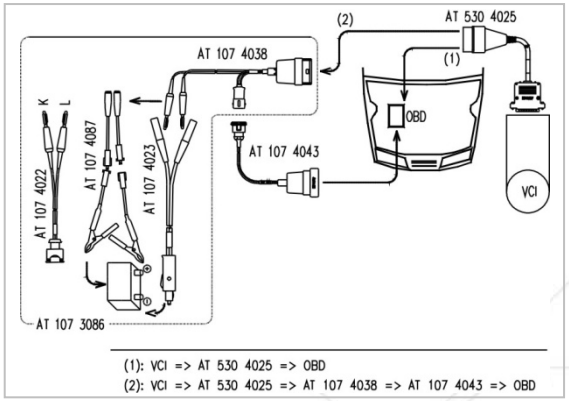
Ref. AC911786



LADA

AT107 4043

Ref. AC911785



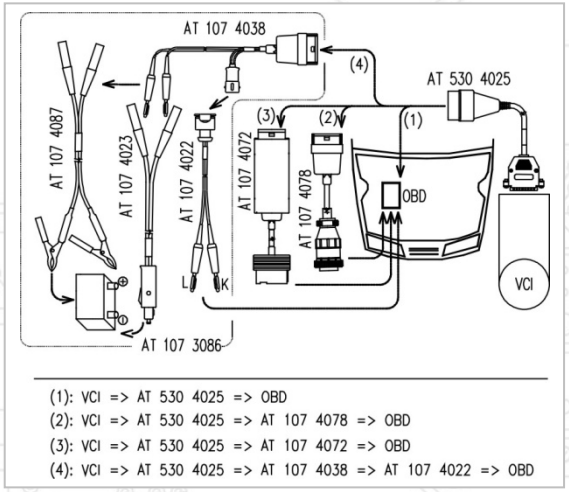
MERCEDES

AT107 4084

Ref. AC911850

AT107 4085

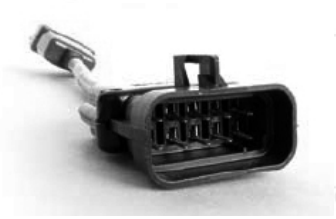
Ref. AC911851

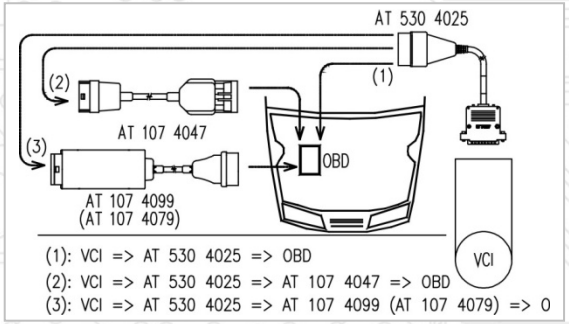


OPEL

AT107 4047

Ref. AC911782





VOLKSWAGEN SKODA – SEAT - AUDI

AT107 4049

Ref. AC911779

AT107 4033

Ref. AC911777

AT107 4084

Ref. AC911850

FORD

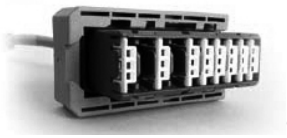
AT107 4090

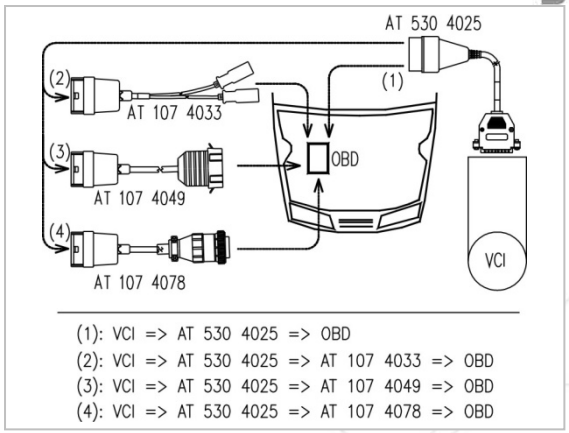
Ref. AC911708

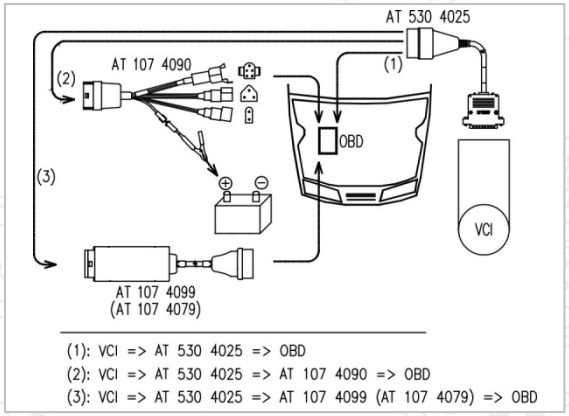
PEUGEOT - CITROËN

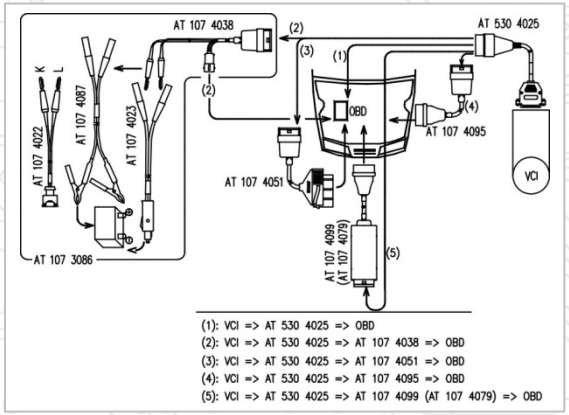
AT107 4051

Ref. AC911781





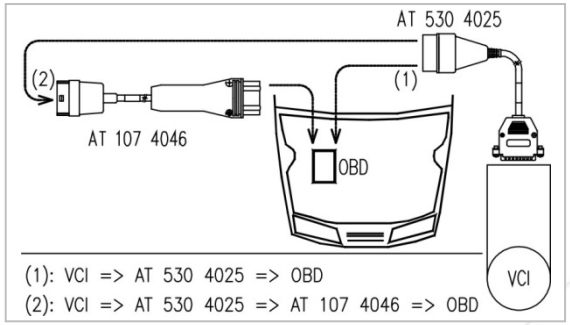




RENAULT

AT107 4046

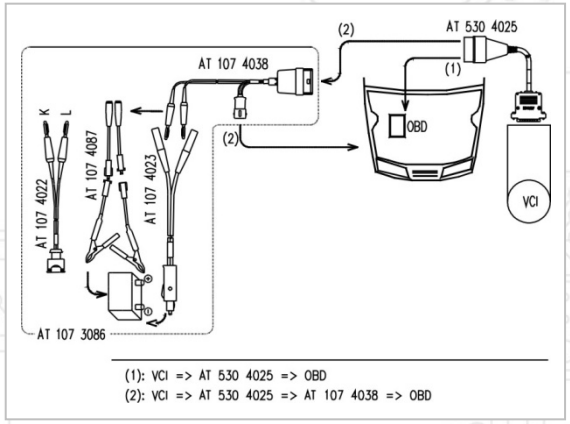
Ref. AC911780



Universal Connection Parts

AT1073086

Ref. AC911778



Universal Connection Parts

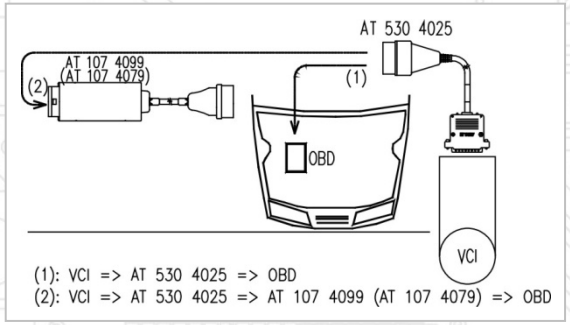
OBD1 n/A

AT1073086

Ref. AC911907

The OBD 1n/A cable is used to perform common operations on the following systems:

- Ford MS CAN
- Peugeot / Citroën CAN
- Land Rover, suspension functions
- Opel: MS CAN
- Fiat: LS CAN (Grande Punto)



Multi-Diag Handy

Multi-Diag Handy is a compact device for complex electronic control units diagnostics and implements diagnostics of older vehicles, EOBD equipped vehicles and complies to Pass-Thru standard (next step in vehicle diagnostics globalisation).
Multi-Diag Handy is a heart of modular system, which can be enhanced by electrical measurement module (Multi-Diag Handy Plus).

Multi-Diag Handy

Multi-Diag Handy Plus

Multi-Diag Handy

Ergonomic design with emphasis on garage environment. Touch screen allowing mouse functions.

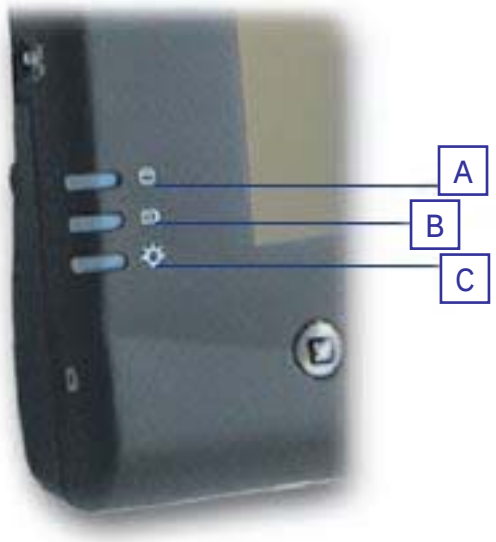
Technical characteristics

Screen	Touch colour 8.4'' SVGA 800x600
Processor	Via EdenTM ESP 1 Ghz
Random Access Memory	512 Mb RAM
Hard disk	40 Gb
Drive	External DVD drive to be connected to a USB port
Platform	Windows Embeded
Network and wireless connection	thernet LAN 10/100, Wifi a Bluetooth, IrDA, Modem – 56 kbps

A stylus pen is used to activate the touch screen display and functions in the same way as an external mouse. Only use the tip of the stylus pen when interacting with the LCD display to prevent damage to the display surface

Buttons and indicator lights

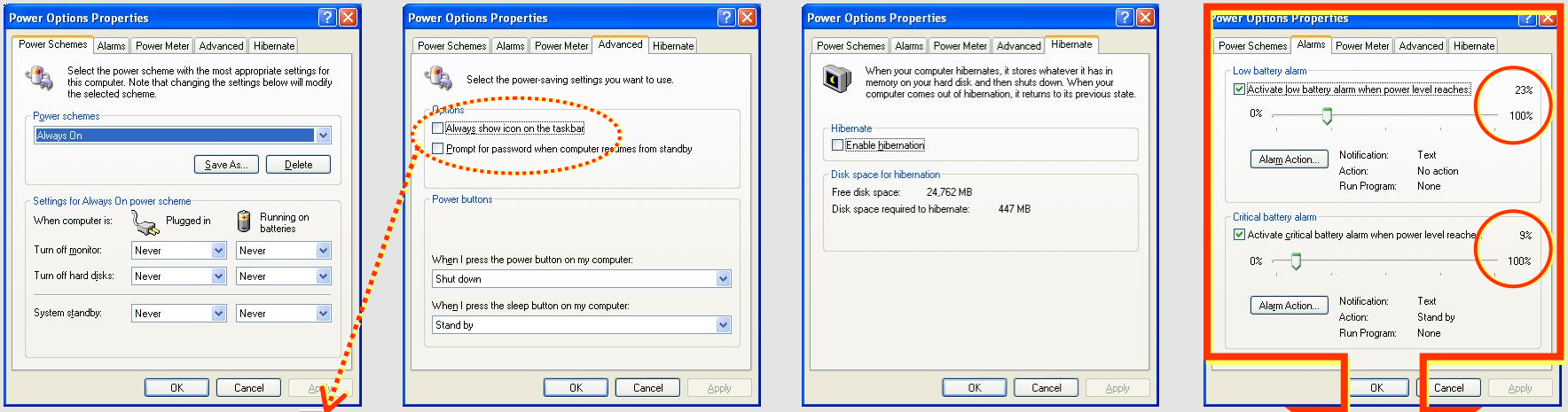
A	Hard disk	Orange	Flasher light	Hard disk access in progress
B	Battery *)	Green	OFF	Battery over 90% charged or operating on battery.
			ON	Battery on charge Charging may not necessarily start if the remaining charge in the battery is greater than 90%.
C	Power supply	Blue	OFF	The tablet is OFF.
			ON	The tablet is ON.



Note *): Power management, configuration and alarm for low battery (see next page)

1. Brightness adjustment
2. ON/OFF button
3. Command Buttons (not used)

Power management, configuration and alarm for low battery – default settings


Power Options Properties
Power Schemes
Alarms
Power Meter
Advanced
Hibernate
Select the power scheme with the most appropriate settings for this computer. Note that changing the settings below will modify the selected scheme.
Power schemes
Always On
Save As...
Delete
Settings for Always On power scheme
When computer is:
Plugged in
Running on batteries
Turn off monitor:
Turn off hard disks:
System standby:
Never
OK
Cancel
Apply
Select the power-saving settings you want to use.
Options
Always show icon on the taskbar
Prompt for password when computer resumes from standby
Power buttons
When I press the power button on my computer:
Shut down
When I press the sleep button on my computer:
Stand by
When your computer hibernates, it stores whatever it has in memory on your hard disk and then shuts down. When your computer comes out of hibernation, it returns to its previous state.
Hibernate
Enable hibernation
Disk space for hibernation
Free disk space: 24,762 MB
Disk space required to hibernate: 447 MB
Low battery alarm
Activate low battery alarm when power level reaches:
23%
0%
100%
Alarm Action...
Notification: Text
Action: No action
Run Program: None
Critical battery alarm
Activate critical battery alarm when power level reaches:
9%
Action: Stand by

Classical signalling (icon of battery level for MS Windows is placed in notification area) is in Multi-Diag Handy prohibited!
(Start \ Control panels \ Performance and Maintenance \ Power Options - valid for Windows XP)

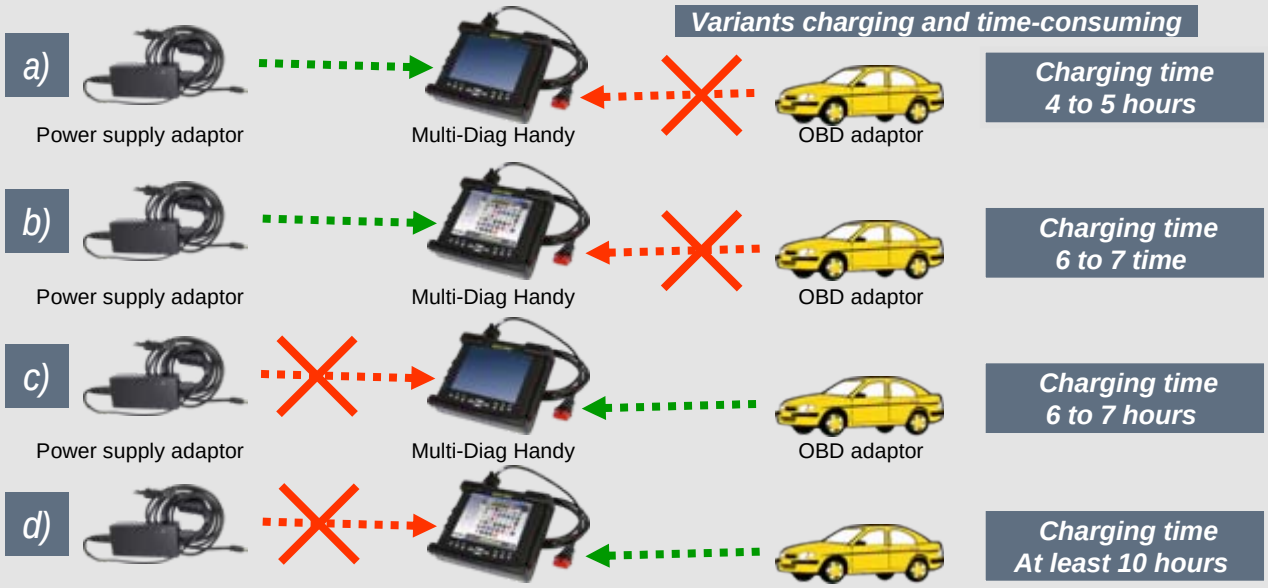
Variations of low battery reporting: Battery = **23%** (*Displayed message on the need to recharge battery)*, Battery = **9%** (*Stand By mode)*

Note 1: If Multi-Diag Handy is not used for more than 14 days, battery may be discharged (is recommended to dismount the battery from PC)

Note 2: Is recommended charge battery with power supply adaptor (charging through OBD connector is taken more as an operating voltage)

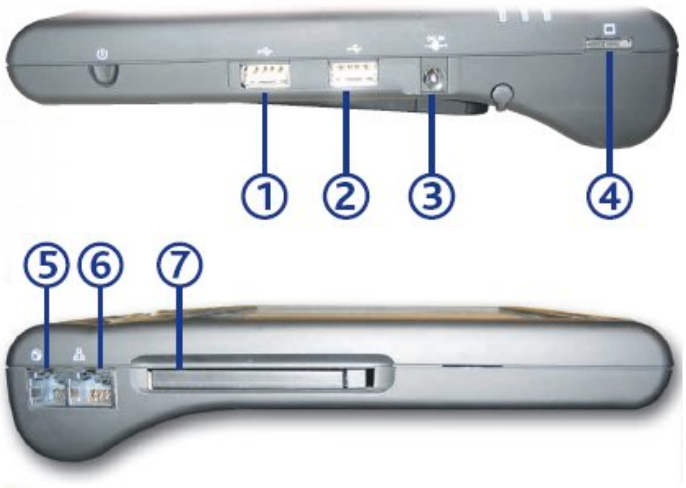
Signalling of battery status is controlled by LED and pop-up window by Multi-Diag Handy

Variants charging and time-consuming



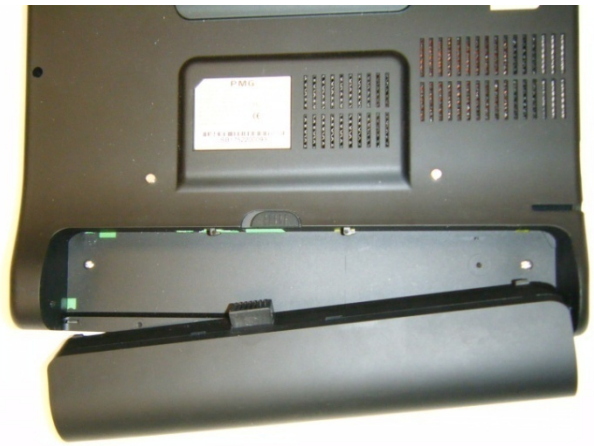
Multi-Diag®

Ports



1. USB
2. USB
3. DC Power Supply
4. VGA Monitor Outlet
5. Modem (RJ11)
6. Network/Ethernet (RJ45)
7. PCMCIA

Battery replacement



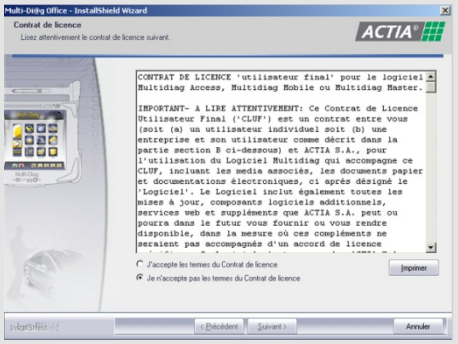
- The tablet must be OFF.
- Slide the battery lock on the rear panel and pull the battery downwards.
- Insert the battery by sliding it into its housing.

Installation

1

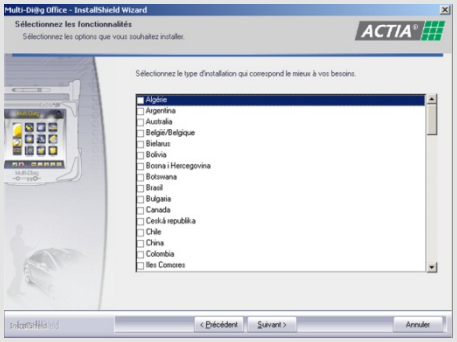
Insert the Multi-Diag DVD in your drive
to launch the installation of the Multi-Diag software.

2


Multi-Diag Office - InstallShield Wizard
Contrat de licence
Lisez attentivement le contrat de licence suivant.
ACTIA
CONTRAT DE LICENCE 'utilisateur final' pour le logiciel Multidiag Access, Multidiag Mobile ou Multidiag Master.
IMPORTANT- À LIRE ATTENTIVEMENT: Ce Contrat de Licence Utilisateur Final ('CLUF') est un contrat entre vous (soit (a) un utilisateur individuel soit (b) une entreprise et son utilisateur comme décrit dans la partie section B ci-dessous) et ACTIA S.A., pour l'utilisation du Logiciel Multidiag qui accompagne ce CLUF, incluant les media associés, les documents papier et documentations électroniques, ci après désigné le 'Logiciel'. Le Logiciel inclut également toutes les mises à jour, composants logiciels additionnels, services web et suppléments que ACTIA S.A. peut ou pourra dans le futur vous fournir ou vous rendre disponible, dans la mesure où ces compléments ne seraient pas accompagnés d'un accord de licence
J'accepte les termes du Contrat de licence
Je n'accepte pas les termes du Contrat de licence
Imprimer
< Précédent
Suivant >
Annuler

Read the license contract displayed on the screen. Select
"I accept the terms of the license contract".
Click on the **"Next"** button.

3



Select the installation language of your choice.
Click on the **"Next"** button.

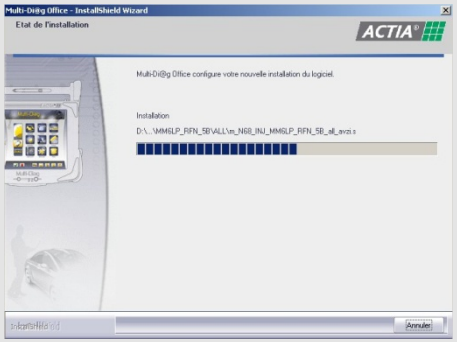
4

Validate the type of installation selected.

5

Enter your profile name.
If you do not have a specific profile, use the default one: **"ACTIA"**.
Click on the **"Next"** button.

6



The installation starts up.
Wait while the data are being downloaded.

7

Multi-Di@g Office - InstallShield Wizard
ACTIA
Multi-Di@g correctement installé avec le profil
L'InstallShield Wizard a installé Multi-Di@g Office avec succès. Cliquez sur Terminer pour fermer l'assistant.
< Précédent
Terminer
Annuler

Once the installation is completed,
click on the **"Close"** button to close the wizard.

Double-click on the icon located on the desktop
to launch the Multi-Diag software.

Navigation

Navigation toolbar

Keyboard button
Displays the digital keyboard

Documentation button
Quick access to the user guide, as well as to previous Multi-Diag News and other resources.

Configuration button
Access the menu used to change the parameters and settings of your Multi-Diag.

Internet upgrade button
Upgrade your tool using the Internet.

Diagnostic report button
View your latest diagnostic reports, as well as those you have archived.

Exit button
Exit the Multi-Diag application.

Other buttons for you to discover along the diagnostic process

Validate button
Validate your choice or select a function.

Cancel button
Answer a question in the negative and/or cancel an action in progress.

Back button
Go back.

Tip

The navigation toolbar is displayed on all screens in the software, do not hesitate to refer to it.

Software protection system

Multi-Diag 9.2 version introduces a new software protection system. The activation password can be requested after Multi-Diag launch or during of Multi-Diag work depending on your license. The activation password shouldn't be requested in case of version upgrade.

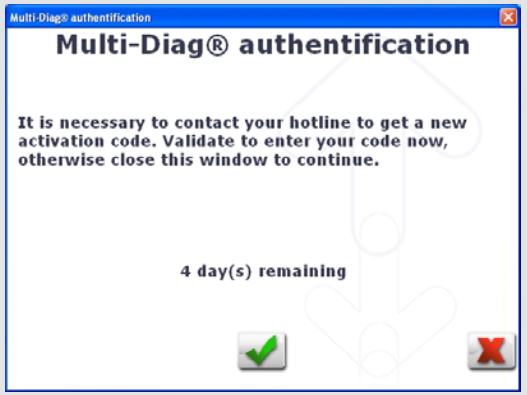
1 MULTI-DIAG AUTHENTICATION / TRIAL VERSION

This screen is shown in case of:

- installation on a computer where **Multi-Diag has never been installed**
- change of computer or computer reinstallation

By pressing button a screen for an activation password entering will be shown (see point 2).

By pressing button an authentication will be cancelled and application will be switched to 5 days trial period.


Multi-Diag® authentification
Multi-Diag® authentification
It is necessary to contact your hotline to get a new activation code. Validate to enter your code now, otherwise close this window to continue.
4 day(s) remaining

2 MULTI-DIAG AUTHENTICATION / ACTIVATION PASSWORD

This screen follows pressing of button in a previous step – see point 2.

By entering an activation password to an edit box (see mark 1) and pressing button, the application works without time restrictions.

By pressing button the authentication will be cancelled and the application will be closed!

Note:
You can press button to show a software keyboard in case of a standard keyboard is not present.

Software protection system

Multi-Diag®

Multi-Diag 9.2 version introduces a new software protection system. The activation password can be requested after Multi-Diag launch or during of Multi-Diag work depending on your license. The activation password shouldn't be requested in case of version upgrade.

3 MULTI-DIAG AUTHENTICATION / HW CHANGE

This screen is shown in case of:

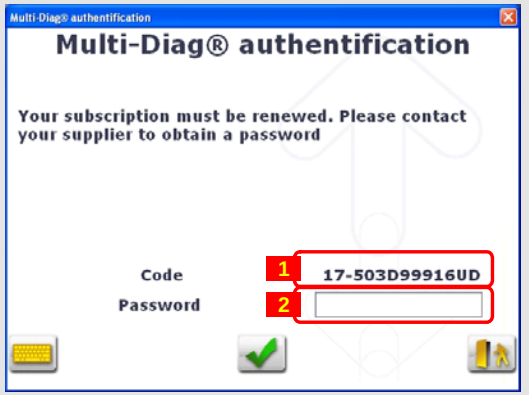
- replacing of VCI (malfunction, damage)
- license expiration

To obtain an activation password (see mark 2), please, contact your supplier and give him a computer code (see mark 1).

Important information:
The activation password is valid for a computer and a VCI where the computer code was shown.

By entering the activation password to an edit box (see mark 2), the application will start to work properly.

By pressing button an authentication process will be cancelled and an application will not start a diagnostic



Configuration

VCI

The VCI configuration step is essential to the operation of your diagnostic tool.
You must therefore remember to configure your VCI before using it for the 1st time.

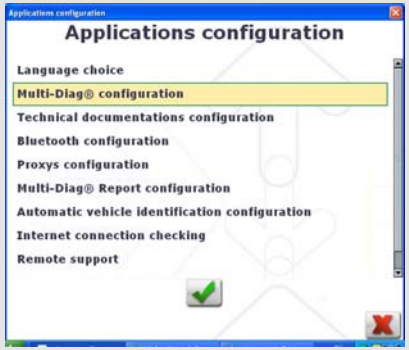
Tip

Remember to reconfigure your VCI if you replace it.

1

Click on the **"Configuration"** button in the navigation toolbar.

2



The **"Application configuration"** screen is displayed.
Select **"Multi-Diag Configuration"**.

3

Enter your VCI number

4

You will find the VCI **serial number** to be entered at the back of the VCI (6 digits).

How to configure a Bluetooth VCI

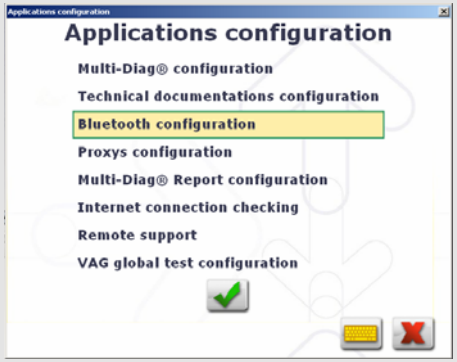
You must configure the Bluetooth link between the VCI and your diagnostic station in order to benefit from the wireless connection possibilities offered by the tool.

1st step	Check that your diagnostic station has a Bluetooth-type wireless connection. If such is not the case, you can use a Bluetooth antenna connected to a USB port. During the connection, your diagnostic station automatically recognises the Bluetooth device.
2nd step	Connect the VCI to the vehicle by using the OBD cable. The VCI is now powered up.
3rd step	Launch the configuration application to configure the Bluetooth link between your diagnostic station and the VCI. Follow the steps below.

1

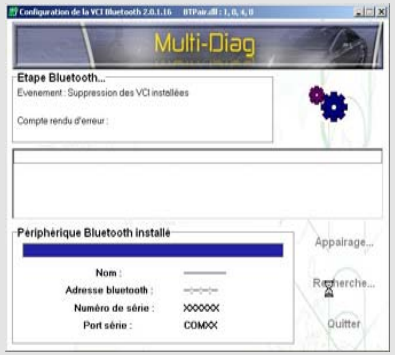
Click on the **"Configuration"** button in the navigation toolbar.

2



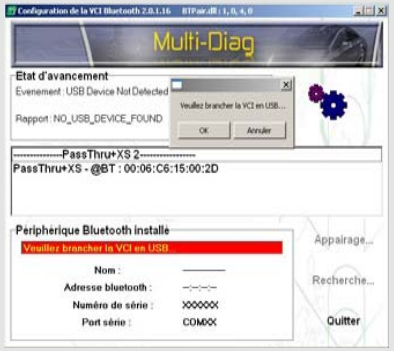
The **"Application configuration"** screen is displayed.
Select **"Bluetooth configuration"**.

3



Wait while the configuration application is being launched.

4

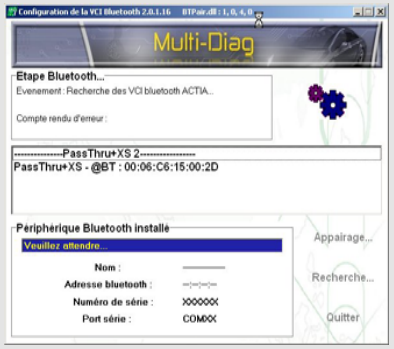


To continue with the configuration,
you must connect the VCI in USB wire mode.

5

Connect the VCI to your diagnostic station using the USB cable provided.

6



The VCI has been configured.
Click on the **"Exit"** button to exit the application.

Technical data

The Multi-Diag software allows you to create a link between your technical documentation (which includes a set of data for vehicle maintenance and repair) and your electronic diagnostic tool.

How to configure your technical documentation software

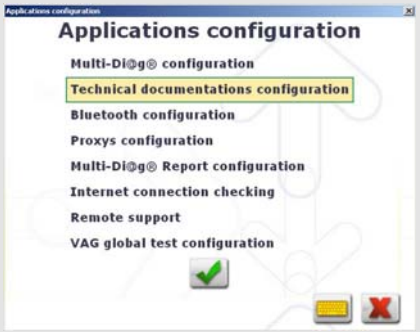
1

Install your technical documentation software (Autodata or VIVID, not included).

2

Click on the **"Configuration"** button in the navigation toolbar.

3



The **"Application configuration"** screen is displayed.
Select **"Technical documentation configuration"**.

4

Select the technical documentation database already incorporated into your tool (AutoData, Vivid).
Then click on the **"Validate"** button.
Your documentation interface has been installed.

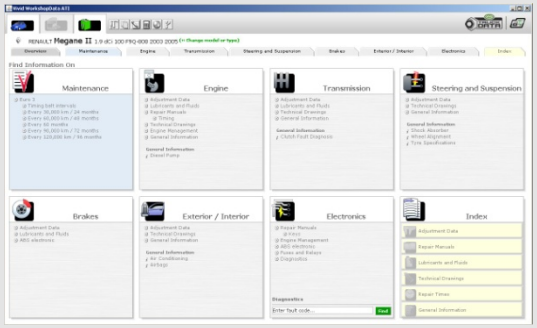
How to look up the technical documentation database

In the course of a diagnostic, you will be offered a direct link to the data required for the diagnostic in progress.

1

Once the function has been chosen, select the **"Technical data"** tab.
Click on the technical documentation you wish to look up.

2



The selected electronic technical documentation
is immediately opened at the relevant chapter.

*You will also find in the **"Technical data"** tab links to a set of technical data (provided by ACTIA) associated with the diagnostic in progress.*

In the example above (Renault Mégane II), you have access to the configuration procedure for electro-pneumatic valves.

Diagnostic reports

A diagnostic report includes all the data recorded during a diagnostic.
The Multi-Diag software gives you the possibility of archiving these data and of looking them up at a later stage.

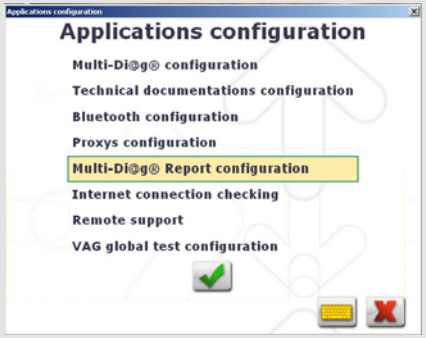
How to configure your diagnostic report

You can customise the diagnostic report by adding personal data.

1

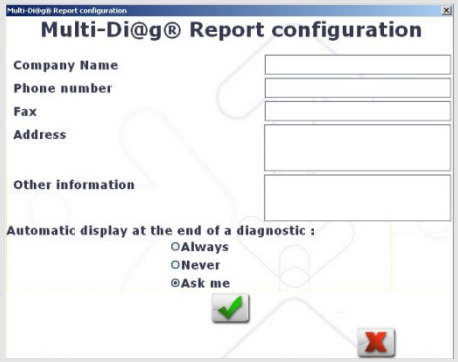
Click on the **"Configuration"** button in the navigation toolbar.

2



The **"Application configuration"** screen is displayed.
Select **"Multi-Diag Report Configuration"**.

3



Enter the information to be included in the report.

Tip

Add value to your service by customising the diagnostic report.

How to manage diagnostic reports

All diagnostics are stored in a "Diagnostic report" database. You can manage them according to your requirements.

1

Click on the **"Diagnostic report"** button in the navigation toolbar.

2

Report Choice
N° Date Customer Vehicle ECU
1 08/01/09 13:48 RENAULT MEGANE II ESP8
2 07/01/09 15:46 RENAULT MEGANE II ESP8
3 04/11/08 15:13 BMW Express Di@g
4 04/11/08 15:01 BMW Express Di@g
5 04/11/08 14:57 BMW Express Di@g
6 04/11/08 14:53 BMW Express Di@g
7 03/11/08 16:00 OPEL MERIVA, Tableau de bord BG 13201075
8 03/11/08 16:00 OPEL MERIVA, Y 17 DT
Select the whole page
1/3

Select a diagnostic report in the list.
Double-click to access the detailed report.

Archive the report selected

Look up the archives

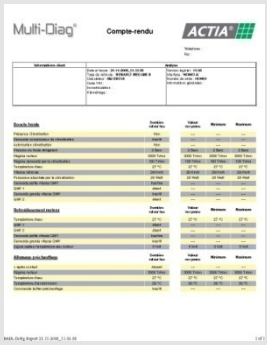
Permanently delete a report

You can print your report to keep a written record. You can also, at any time, provide your customer with this document, which lists all the tests performed in the course of the diagnostic.

3

Print your report.
You can either save it or delete it.

4



Example of printout of a customised diagnostic report.

Display the digital keyboard to enter customer-related information

Permanently delete a report

Print a report

Save a report

Exit the Multi-Diag application

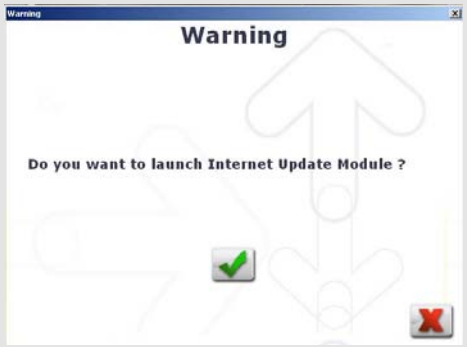
Internet upgrade

You can upgrade your tool via the Internet. To do this, you must have an Internet connection.

1

Click on the **"Internet upgrade"** button in the navigation toolbar.

2

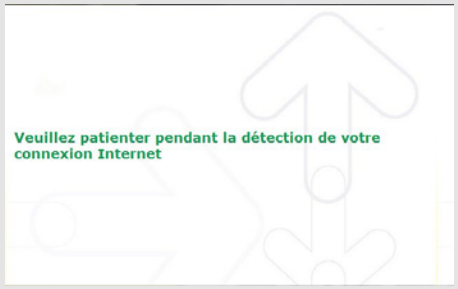


Click on the **"Validate"** button to continue.

3

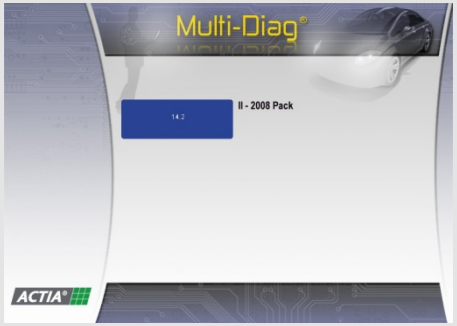
Click on the **"Validate"** button in the bottom right-hand corner to launch the Multi-Diag Update interface.

4



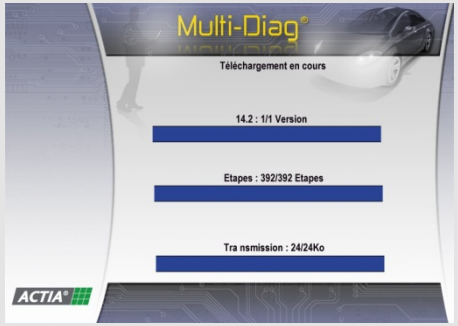
Wait while connection to the upgrade server is being established.

5



Select the upgrade you wish to install.

6



Wait while the data are being downloaded.

7

Avertissement
La mise à jour Internet est terminée. Veuillez quitter les applications actuellement en cours d'exécution.

The download is completed.
Restart the Multi-Diag software in order to be able to use the new functions.

Diagnostic

Vehicle selection

The 1st step in the diagnostic consists in selecting the vehicle. You have a choice between three possibilities:

Entering the VIN identifier

1

Enter the vehicle VIN identifier.
Then click on the **"Validate"** button.

Automatic selection

1

Click on the **"Automatic vehicle selection"** button on the home screen.

2

Wait while the connection is being established.

3

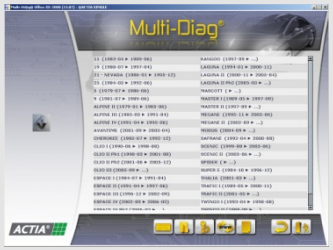
Proceed with your diagnostic.

Manual selection

1

Select the make of the vehicle.

2



Select the vehicle model.

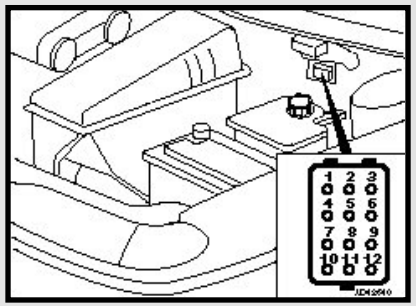
Localisation of the diagnostic socket

Once the vehicle has been selected, connect your tool to the diagnostic socket of your vehicle.
Multi-Diag proposes diagrams, photos and videos to help you locate the vehicle diagnostic socket.

1

Click on the Localisation icon.

2



View the location of the diagnostic socket using the diagrams, photos and videos available in the tool.

Workshop mode and Expert mode

Multi-Diag®

Workshop mode

For quick repair or maintenance.
Direct access to the diagnostic applications classified according to activity (8 activity icons)

Expert mode

For a more in-depth repair or diagnostic.
Access to advanced functions, ECU by ECU

Tip

Activity in colour: available on this vehicle

Shaded activity: not available on this vehicle

Wheels and suspension:
Configuration of tyre size, work on electronic shock absorbers, configuration of electronic valves (DSG, SSP, etc.), calibration of the steering wheel angle sensor

Workshop mode

Maintenance:
Maintenance indicator reset, reading/deletion of defaults, Express Diag, etc.

Braking:
Diagnostic of ABS/ESP ECU's, locking/unlocking of electric brakes, purging of brake system, initialisation of slope sensor, etc.

Air conditioning:
Diagnostic of automatic air-conditioning systems, additional heating

Equipment:
Installation of after-sales products, alarm, radio, CD pack, coupling system, etc.

Anti-pollution and exhaust system:
Maintenance and replacement of the particle filter, lambda sensor, OBD test, anti-pollution diagnostic.

Expert mode:
Access to advanced functions, ECU by ECU

Body and windshield:
Airbag locking/unlocking, reverse radar, xenon headlights, rain sensor, airbag ECU

Engine:
Injection ECU, injector programming, automatic gearbox, EGR valve, etc.

Expert mode

Express Diag

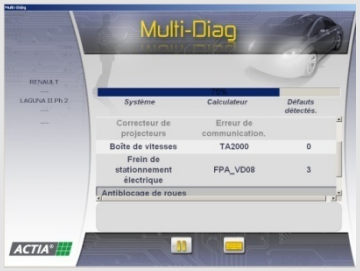
The Express Diag function allows you to perform a quick diagnostic over the whole vehicle.

With just one click, you can view all the DTC's for all ECU's in the vehicle.
An overview of the general electronic status of the vehicle is displayed on a single screen.
At the same time, the tool automatically generates a diagnostic report summarising the results of this test. You can print this report at any time, so as to keep a hard copy for archiving, or to have a supporting document to give to your customer.

1

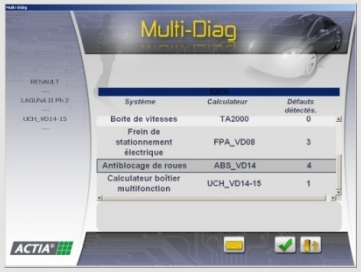
Click on the **"Express Diag"** icon.

2



Please wait while the tool scans all the ECU's.

3



Select the ECU of your choice.
Click on the **"Validate"** button.

4

A description of the defaults is displayed in a window.
Select them if necessary.
Use the **"Eraser"** tool in the navigation toolbar to erase them.

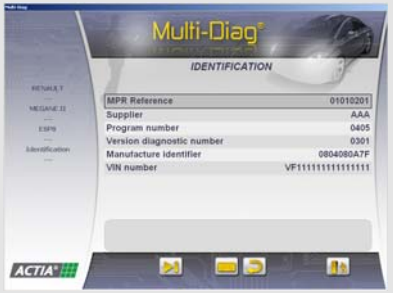
Express Diag in Expert mode

Read all DTC's on all ECU's in the vehicle.
Directly access all ECU functions (identification, reading and deletion of the default memory, reading of parameters, actuator testing, configuration, etc.).

Diagnostic applications

Below are a few examples of the applications most frequently used when selecting an ECU:

Identification



Obtaining information on the ECU:
Product reference / Supplier's name / Software version / VIN code / etc.

Reading of the default memory

Multi-Diag
Lecture de la mémoire défauts
5042 Cible roue avant gauche Présent
5041 Cible roue avant droite Mémorisé
5043 Cible roue arrière droite Mémorisé
5044 Cible roue arrière gauche Mémorisé
ACTIA

Viewing the defaults present or stored on the ECU.
Default present = Permanent default
Stored default = Intermittent default.

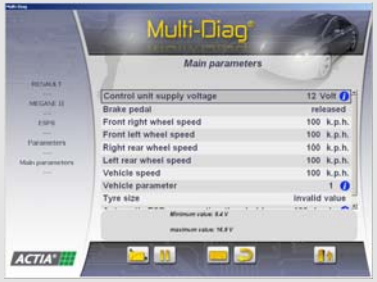
for more information, see p.38

Erasing DTC's

Delete all defaults present on the ECU.

for more information, see p.38

Parameters


Multi-Diag
Main parameters
Control unit supply voltage 12 Volt
Brake pedal released
Front right wheel speed 100 k.p.h.
Front left wheel speed 100 k.p.h.
Right rear wheel speed 100 k.p.h.
Left rear wheel speed 100 k.p.h.
Vehicle speed 100 k.p.h.
Vehicle parameter 1
Tyre size invalid value
ACTIA

View all parameters managed by the ECU.

for more information, see p.39

Actuators

Activate the actuators managed by the ECU.

for more information, see p.41

Configuration

Configure elements managed by the ECU.

for more information, see p.42

Reading of the default memory

You can view the DTC's present or stored on the ECU by using the **"Read the default memory"** function.

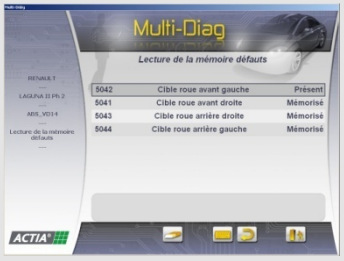
1

Select the ECU of your choice.

2

Double-click on **"Read the default memory"** to view the defaults.

3


Multi-Diag
Lecture de la mémoire défauts
5042 Cible roue avant gauche Présent
5041 Cible roue avant droite Mémorisé
5043 Cible roue arrière droite Mémorisé
5044 Cible roue arrière gauche Mémorisé
ACTIA

A new window is displayed, showing the DTC, the associated meaning, and the default status (present or stored). Select the default to be deleted. Erase it by using the "Eraser" tool in the navigation toolbar.

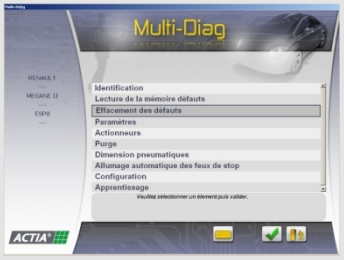
Erasing DTC's

You can immediately delete the DTC's present by using the **"Erase DTC's"** function.

1

Select the ECU of your choice.

2



Double-click on **"Erase defaults"**.

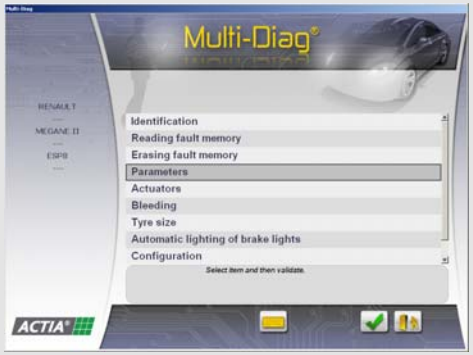
3

Click on the **"Validation"** key in the bottom right-hand corner to confirm your choice. The failure memory is then erased.

Parameters

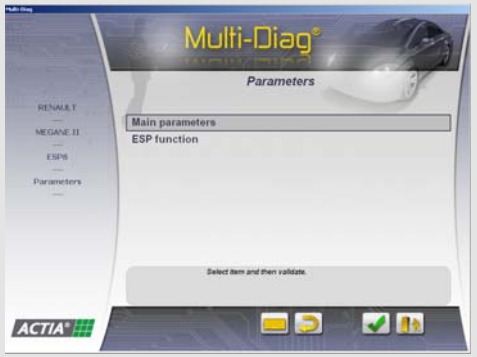
You can view the data generated by all the sensors and processed by the ECU being questioned.

1



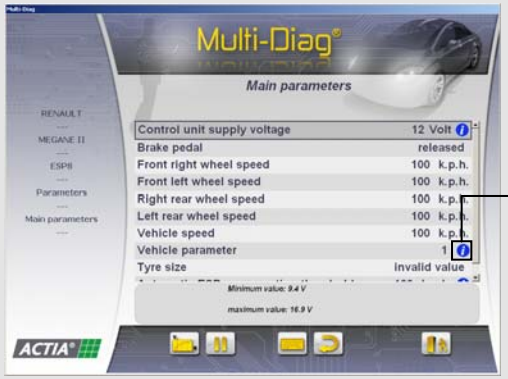
Once the ECU has been selected, the "Parameter" menu is displayed.

2



Select the group of parameters you wish to view.

3



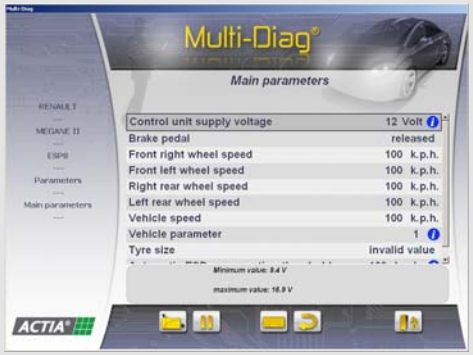
The list of parameters is displayed.
The value measured in real time by the ECU is specified for each parameter.

This icon means that reference data are available
at the bottom of the page.
These data will help you understand the information displayed.

Graphic viewing of parameter data

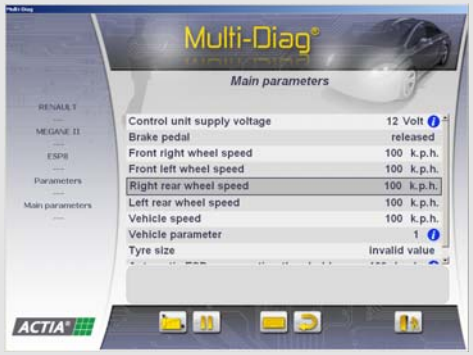
Using this function, which is accessible from the **"Parameters"** menu, you can view the changes in value of the parameter in graphic mode along a time axis.

1



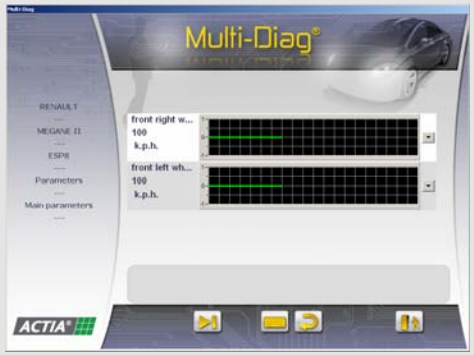
Click on the **"Graphics"** button in the navigation toolbar.

2



Select the parameters to be monitored (4 maximum).

3

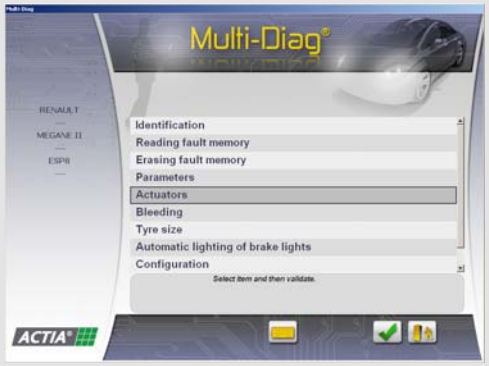


View the changes to your parameters over time (horizontal axis) and to the values of the parameter being monitored (vertical axis).

Actuators

This application enables you to test all the actuators managed by the ECU being questioned.

1



Select **"Actuators".**

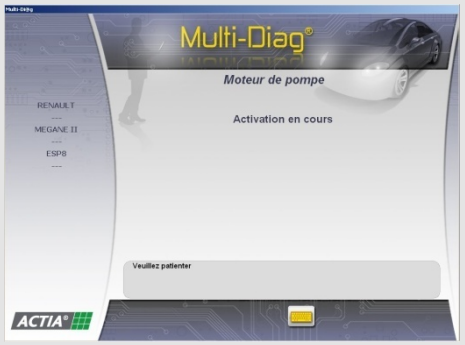
2

In the list, select the actuator you wish to test.

3

Follow the instructions to perform the diagnostic.

4



The diagnostic is launched.

Configuration

This application enables you to configure the ECU's.

The example below provides an illustration of a change in tyre dimensions, requiring modification to the configuration of the ABS ECU.

1

Select the ECU (ABS), and then **"Tire size"**.

2

Make your selection and click on the **"Validate"** button.

3

Make your selection and click on the **"Validate"** button.

4

Your selection is displayed. Click on the **"Confirmation"** button to confirm.

5

The change in configuration is confirmed in a window. Click on the **'Validate"** button.

Instructions for use

Preliminary remarks

- This tablet is for professional use only.
- The tablet must be used in compliance with ACTIA instructions.
- Power supply voltage 8 V to 16 V.

A supply voltage outside these limits may damage the tablet.

Environment

- Use the tablet at an ambient temperature of 0°C to 45°C for the Multi-Diag Master, and between 0°C to 35°C for the Multi-Diag Mobile.
- Protect the tablet from prolonged exposure to sunlight.
- Do not place the tablet near sources of flammable liquids to prevent any risks of explosion and fire.
- Do not use the tablet in the rain or on damp surfaces to prevent any risk of electric shock or damage to the tablet.
- Do not splash the tablet with liquids (water, acid, cleaning fluids, etc.).
- Do not leave the cables or peripherals near a source of heat or hot materials.

Handling

- Do not drop the tablet.
- Do not use peripherals (e.g. cables) other than those supplied by ACTIA.
- Do not install any software package other than those recommended by ACTIA.
- Avoid using the tablet for very long periods (several hours), since some parts of the tablet (I/O connector) may become very hot.
- Handling the tablet by the plastic parts to avoid burns.
- Do not allow the cables to run over the corner of tables, workbenches or shelves.
- Only use the stylus provided, in order to prevent damage to the touch-sensitive screen.
- Do not force the CD-ROM drive open (class 1 laser item), this could cause physical damages.
- Do not pull on the mains cable when unplugging the tablet from the power supply. Grip the connector when performing this operation.
- On road tests, secure the tablet using the vehicle's seat belts.
- The road test must not be conducted by the driver. Only a passenger must carry out the test.
- Do not place the tablet on an Airbag stowage location. The Airbag may be triggered.

Maintenance

In case of damages
- Do not use the tablet.
- Contact your retailer's After-Sales service.
- If the screen glass is broken, do not inhale, touch or ingest liquid crystals.

Glass splinters

Cleaning

- For external cleaning of the tablet, use a soft cloth impregnated with an suitable cleaning agent (cleaning agent for computer screen).

Do not use solvents

Batteries

Safety precautions
- Do not cause any short-circuits between the 3 battery terminals.
- Do not use the battery for any other applications (emission of a toxic substance and deterioration of the battery).
- Keep the battery away from any flammable sources.
- If the battery life drops, change the battery.
- Always replace the battery with a battery of the same type.
- Do not reverse the polarity of the battery.

Charging the battery

The battery must be charged using the mains adapter only. Do not use a standard charger.
Charge conditions: temperature between 10°C and 40°C for Multi-Diag Master, and between 10°C and 35°C for Multi-Diag Mobile.

The battery must be charged if:
- You have changed the battery and it is not charged.
- The charge indicator shows an insufficient autonomy (see chapter: Diagnostic stations).

To optimise battery performance, we recommend that you charge the battery to 100% (no partial charge) and only charge the battery when it is completely discharged.

Legal provisions

This tool is intended for informed professionals, who as such have, on the one hand, made their own decision to purchase, with no IT consulting service to be provided by ACTIA, who have no obligation towards them in this respect, and who on the other hand, accept the software and associated user guide as it is, without redress against ACTIA, either due to an apparent or hidden default, or to the decisions taken by the users based on its consequences, which come under their own competence and professional care, or to direct or consequential damages which may result from its use and operation.
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Recycling

The packaging materials for this product are recyclable and can be reused.
All materials must be disposed of in accordance with local recycling rules.
When disposing of this device, be sure to comply with the law or local regulations.
Batteries must never be thrown away or incinerated, but disposed of in accordance with local regulations concerning chemical waste.
This product and the accessories packaged with it comply with the EEE directive, except for the batteries.